Attorney Docket No.

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		Patent :			6/30/98. OMB 0651-0032 TMENT OF COMMERCE		
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DECLARATIO		Attorney Docke		diness it displays a v	and on b contornamen.		
UTILITY OR I		First Named In		Hajime OH	ΔΤΔ		
PATENT APPLI		A High I tulliou All		ETE IF KNOW			
ATENTALL	CATION	Application No.	COMIL	TE II ILION.			
□ Declaration	☐ Declaration	Filing Date					
submitted with or	submitted after	Group Art Unit	-				
initial filing	initial filing	Examiner Name					
Initial Ining	minai ming	Examinet Name		•			
As a below named inventor,	I hereby declare that:	•					
My residence, post office add	dress, and citizenship	are as stated below	v next to m	y name.			
I believe I am the original, fir							
inventor (if plural names are	listed below) of the	subject matter whic	h is claime	d and for which	a patent is sought		
on the invention entitled:							
	TUBE FOR HE	AT EXCHANGE	£R				
				····			
l	(Tit	le of the Invention)			-		
the specification of which							
is attached hereto							
or or	2002 11 1 10		1 D/		1 A 1' 4'		
was filed on _25.06.2	 :				Application		
Number: <u>PCT/JP03</u>	<u>/U8U18</u> and was am	ended on21.07.2	(11	аррисавіе).			
I haraby state that I have reviewed and understand the contents of the share identified and iffertion in the latest							
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
ciamis, as amended by any ar	mendment specifican	ry referred to above	·•				
I acknowledge the duty to dis	sclose information w	hich is material to r	oatentabilit	v as defined in '	Title 37. Code of		
Federal Regulations § 1.56.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 10 p	,,	,	21110 07, 0000 02		
1 cuciai Regulations § 1.50.							
I hereby claim foreign priority benefits under Title 35, United States Code §119 (a)-(d) of any foreign							
application(s) for patent or in	•		-		•		
designated at least one country other than the United States of America, listed below and have also identified							
below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT							
international application hav	ing a filing date befo	re that of the applic	ation on w	hich priority is	claimed.		
Prior Foreign Application Number(s)	Country	Foreign Filing Date			ified Copy Attached		
2002-199422	Innan	(MM/DD/YY) 07/09/2002	Claime YES		NO NO		
2002-199422	Japan	07/09/2002	ILO	<u>'</u> — ⊢ ⊢			
					片		
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SD/02D attached beautary							
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto: I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.							
I hereby claim the benefit under Title 35	o, United States Code §119(e	e) of any United States pro-	visional applica	ation(s) listed below.			
Application Number (s) Filing Date (N		MM/DD/YY)	Additional provisional application				
•	·		numbers are listed on a supplementa				
			priority data sheet PTO/SB/02B				
	attached hereto.						

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DECLARATION - Utility Or Design Patent Application											
I hereby claim the benefit under Title 35, United States Code \$120 of any United States application(s) of any PCT international application designating the United States of											
America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the matter provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37,											
Code of Federal Regulations § 1											
U.S Parent Application PCT Par			Parent		Par	ent Filing	Date	Parent Patent Number			ıber
Number Number					(MI	M/DD/YY	YY)		(if applicable)		
PCT/JP03/08018 06/25/2003											
Additional ILS or PC	T internatio							PTO/SI	R/02B attached here	eto.	
	Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto. As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and										
Trademark Office connected	d therewith:		Number 2335	3	p						
	`	and							Place Custome	r	
•		Registere	d practitioner	(s) name/	/registra	ation number li	isted below		Number Bar Co	de	
									Label Here	<u> </u>	
Name		Regist	ration No.			Name			Registratio	n No	
Richard D. Grauer			2,388			utherford			40,412		
David T. Nikaido			2,663		n E. F				40,610		
Ronald P. Kananen			4,104			Murphy			41,212		
Ralph T. Rader			8,772			Russo			41,282		
Carl Schaukowitch Michael D. Fishman			9,211 1,951		ert S. C				41,800		
Joseph V. Coppola, Sr.			1,951 3,373		s F. K. d K. B	_			41,882 42,314		
Michael B. Stewart			6,018		-				47,255		
Alexander D. Rabinovich	n		7,425		Brian K. Dutton Shawn B. Cage				51,522		
Additional registered practitioner(s) named on-supplemental-Registered Practitioner Information sheet PTO/SB/02C attached hereto.											
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Name	DADED			TIC							
		RADER, FISHMAN, GRAUER PLLC 1233 20th Street, N.W., Suite 501									
				501		-					
City, State, Zip		gton, D.C.									
	US		<i>`elephone</i>			5-3750	Fax		202-955-375		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the											
United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.											
Name of Sole or First Inventor A petition has been filed for this unsigned inventor.											
Given Name (first and middle [if any]) Family Name or Surname											
<i>-</i>	Hajim	<u>ie</u>	•	3			_0	HAT	<u>'A</u>		
Inventor's Signature			λ					Date	d		
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		大火角	10 1					pece	ember. 20. 2	~~	7
Residence: City		aitama	State	TP	∇	Country	Japa	ın	Citizenship	П	Japan
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	1 '						AI, KO	NAN-	MACHI, O	SAT	Ю-
	GU	GUN, SAITAMA 360-0193, JAPAN									
City	S	aitama	State			Zip	360-01	193	Country	J	apan
Additional inventors	are being r	named on the	1 supplemen	tal addi	tional	inventor(s) sl	heet(s) PTC)/SB/02	2A attached heret	0.	



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Name of Inventor		ПАр	etition	has bee	n filed for	r this unsigned in	nventor		
Given Name (first and middle [if any])				Family Name or Surname					
Jun						AKAI	KE		
Inventor's Signature	赤:	70/	•	Dated Pecember 22, 2004					
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City	Saitama	State			Zip	360-0193	Country	Japan	
Name of Inventor			etition	has bee	n filed for	r this unsigned in			
Given Name (fi	rst and middle [if a	ny])				Family Name of	r Surname		
Naoto				TAKAYANAGI					
Inventor's Signature	高杯	直	Dated December. 20 2004						
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Name of Inventor									
Given Name (first and middle [if any]) Family Name or Surname					77				
Shoji AKIYAMA									
Inventor's Signature	John Hold December 20, 2014								
Residence: City	Saitama	State	3	X	Country	Japan	Citizenship	Japan	
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